

Appl. No. 10/726, 778
Amendment dated August 8, 2005
Reply to office action of 04-06-05

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1 1. (withdrawn) A replaceable filter cartridge for a standalone point of use water purification device,
2 comprising:

3 a housing having water inlet and water outlet ports that is adapted for removable insertion
4 into said standalone point of use water purification device;

5 said housing having interior walls providing a flow path extending between said water inlet
6 and water outlet ports along which water to be treated moves through first and second fluid flow
7 passageways containing flowthrough filter media that are adapted to operate in tandem such that said
8 water to be treated first moves through said first passageway containing flowthrough filter media in
9 a first, generally downward direction, and then moves through said second passageway containing
10 flowthrough filter media in a second, generally upward direction, as it flows along said flow path
11 between said water inlet and outlet ports;

12 whereby, the water that moves along the second, generally upward direction soaks upwardly
13 through the filter media contained in the second passageway, which reduces if not eliminates
14 channeling, and the opposing first and second flow directions provide self-wetting of the filter media
15 contained in the first and second flow passageways, eliminating the need for post-use wetting;

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16 wherein said housing includes mating, interfitting top and bottom housing modules fastened
17 in water-tight sealing relation;

18 wherein said top housing module includes a lid member having a slotted dome in fluid
19 communication with a tube downwardly extending from the lid having an inside cylindrical wall
20 providing said first passageway containing filter media; and

21 means for externally mounting a filter to the dome of the lid member to provide pre-filtration.

2. (canceled)

3. (canceled)

1 4. (withdrawn) The replaceable cartridge for a standalone point of use water purification device of
2 claim 1, wherein said bottom housing module includes a generally cup-shaped base member having
3 a generally cylindrical inside wall providing, together with the generally cylindrical outside wall of
4 said tube, an annular second passageway containing filter media.

5. (canceled)

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1 6. (withdrawn) The replaceable cartridge for a standalone point of use water purification device of
2 claim 1, further including an inlet filter inside said top housing module to prevent leakage of filter
3 media and control flow rate.

1 7. (withdrawn) The replaceable cartridge for a standalone point of use water purification device of
2 claim 1, further including an outlet filter inside said bottom housing module to prevent leakage of
3 filter media and control flow rate.

8. (cancelled)

1 9. (currently amended) A filter cartridge for a standalone point of use pitcher-type water purification
2 device that is tilted downwardly in one preferred direction to pour treated water out of the pitcher-
3 type water purification device, comprising:

4 a filter housing wider than it is long adapted for removable insertion inside said standalone
5 point of use pitcher-type water purification device;

6 said filter housing including walls providing water inlet and outlet ports and walls providing
7 a fluid flow path between said water inlet and outlet ports and, along said flow path, first and second
8 flow passageways containing flowthrough filter media that cooperate to provide opposing first and
9 second down and up flow directions respectively in the first and second flow passageways as water

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10 moves along said flow path between said water inlet and outlet ports that reduce, if not eliminate,
11 channeling, and to provide self-wetting of the flowthrough filter media contained in the tandem first
12 and second flow passageways such that water remains in the first and second flow passageways of
13 the filter housing when the filter cartridge is not actively being used to treat water, eliminating the
14 need for post-use wetting steps; and

15 means for retaining said water remaining in said self-wetting first and second flow
16 passageways of said filter housing so that said water does not spill out of the filter housing when the
17 filter housing adapted for removable insertion inside said standalone pitcher-type water purification
18 device is inserted inside said water pitcher-type water purification device and said standalone point
19 of use pitcher-type water purification device is downwardly tilted in said preferred pouring direction
20 to pour treated water out of the pitcher-type water purification device.

10. (cancelled)

1 11. (previously presented) The filter cartridge for a standalone point of use pitcher-type water
2 purification device of claim 9, wherein said water retaining means includes providing said water
3 outlet port to one side only of said housing, and an alignment member carried by said housing to
4 insure that said side of said housing providing said water outlet port faces away from said pouring

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5 direction of said standalone point of use pitcher-type water purification device when said filter
6 cartridge is inserted inside said point of use pitcher-type water purification device.

1 12. (original) The filter cartridge for a standalone point of use pitcher-type water purification device
2 of claim 9, wherein said first flow passageway containing flowthrough filter media is a generally
3 cylindrical flow passageway containing ion exchange and activated carbon flowthrough filter media,
4 and wherein said second flow passageway containing flowthrough filter media is an annular flow
5 passageway containing ion exchange and activated carbon flowthrough filter media surrounding said
6 first, generally cylindrical flow passageway.

13. (canceled)

1 14. (original) The filter cartridge for a standalone point of use pitcher-type water purification device
2 of claim 9, wherein said filter housing wider than it is long has a generally circular cross-section.

1 15. (previously presented) The filter cartridge for a standalone point of use water purification device
2 of claim 11, wherein said filter housing includes mating, interfitting top and bottom housing modules
3 fastened in water-tight sealing relation; wherein said top housing module includes a lid having a
4 circular rim; wherein said bottom housing module includes an upstanding cylindrical side wall

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5 enclosing a bottom wall; and wherein said bottom housing module includes a spillover wall
6 upstanding from said bottom wall in fluid communication with said water outlet port provided to
7 said side of said housing, which spillover wall is tilted upwardly when said pitcher is tilted
8 downwardly in said direction thereby retaining said water remaining in said cartridge.

1 16. (withdrawn) A replaceable filter cartridge for a standalone point of use water purification device,
2 comprising:

3 a housing having water inlet and water outlet ports that is adapted for removable insertion
4 into said standalone point of use water purification device, wherein said water inlet and outlet ports
5 are vertically spaced, with said water inlet port located to the top and said water outlet port located
6 to the bottom of said housing;

7 said housing having interior walls providing a flow path extending between said water inlet
8 and water outlet ports along which water to be treated moves through first and second fluid flow
9 passageways containing flowthrough filter media, and a third flow passageway, wherein said third
10 flow passageway is connected in fluid communication between said second flow passageway and
11 said water outlet port, wherein said first and second flow passageways are adapted to operate in
12 tandem such that said water to be treated first moves through said first passageway containing
13 flowthrough filter media in a first, generally downward direction, and then moves through said
14 second passageway containing flowthrough filter media in a second, generally upward direction, and

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15 wherein said third passageway in fluid communication with said second flow passageway receives
16 the water as it flows out of the second passageway and moves it along said third passageway in a
17 generally downward direction to said outlet port located to the bottom of said housing;
18 whereby, the water that moves along the second, generally upward direction soaks upwardly
19 through the filter media contained in the second passageway, which reduces if not eliminates
20 channeling, and the opposing first and second flow directions provide self-wetting of the filter media
21 contained in the first and second flow passageways, eliminating the need for post-use wetting.